Docket No.: PF-0456-2 DIV

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By:

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Lal et al.

Title:

HUMAN MEMBRANE RECYCLING PROTEINS

Serial No.:

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Commissioner for Patents Washington, D.C. 20231

SUBMISSION OF FORMAL DRAWINGS

Sir:

Transmitted herewith are Figures 1A, 1B, 1C, 1D, 2A, 2B, 2C, 2D, 2E, 2F, 3A, and 3B, as twelve (12) sheets of formal drawings for this application. Each sheet of drawing indicates the identifying indicia suggested in 37 CFR Section 1.84(c) on the reverse side of the drawings.

Applicants believe that no fee is due with this paper. However, if the Commissioner determines that a fee is necessary, the Commissioner is hereby authorized to charge any additional fees associated with this communication or credit any overpayment to Deposit Account No. **09-0108.** A duplicate copy of this communication is enclosed.

If there are any questions regarding the above, the Examiner is invited to call the undersigned at 650-843-7352.

Respectfully submitted,

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54 TCG	108 GGA	162 AGG	216 CCG P	270 CAG Q	324 ACC T	378 CCC P	432 AAC N
SSO	AGT	CAG	AAC N	3 ATC (GAG E	CCA	4 T AAG A
TTC	TGA A	999	GGA AAC G	GTG V	$ ext{TTT}$	CCT	CCT A
45 CCC	99 GAG	153 3GA)7 3C	261 GCT A	315 CCT P	.69 .TG	423 GAA (
TGG	299	CGT (18 2(IC AGA GAC G(R D G	CCA P	AAC N	360 A GCC CCT GCC CCA T A P A P L	ACA T
TTG	TGA	999	AGA R	GAC D	TAC	GCC A	CCC
36 TCC	90 AAC	144 CAG	19 AG S	25 CA 2	306 GTC V	360 CCT P	414 AGC S
GGA		990 5	GCT CAG	C TTT C	GAC D	351 CCT CCA GCC C P P A F	405 AGA AAG CTC <i>P</i> R K L S
992	999	CŢ	G.C.	CCC	CTT L	CCA P	AAG K
27 CTG	81 AGC	135 CTG	189 ATG (243 AAC N	297 ACG T	351 CCT P	405 AGA R
CTG	AGA	CCA	AAC	GAC D	GCC	GAG E	TCG
990	CAG	CCG CCA	GCA	CTT GAC	TA] Y	TAT Y	CCC P:
18 CCA	72 GCA	.26 .TA	.80 ITT	234 GAC E	288 CAG Q	342 GCC A	396 CAG Q
AAC	CGT	500	GCA	AGC	CGG R	CCA P	${ m TTG}$
CGC	ATC	CTA	၁၁၅	CCC	AGC	CCA P	TCC
9 AGG	63 CCA	117 GGG	171 GAG	225 GAG E	279 CCC P	333 CCA P	387 CCC P
292	GAA	TGA	929	GCC	CGA R	GAG E	GCT A
9 NGA CGC AGG	63 ATG GAA CCA I	117 CTC TGA GGG CTA C	171 GCC GCG GAG GCC GCA G	225 TTC GCC GAG F A E	CAC CGA (H	CGG GAG R	387 TCA GCT CCC S A P
5,							

FIGURE 1A

486 CTG L	40 GA	94 CC	48 TG	02 .TG	756 TGT C	10 TT
					TTC	
GAG E	AGG R	AAT N	ATC I	CTC	AGC	GTC V
477 GCT A					747 GCC A	
ACA T	GAC D	CAG Q	CAG Q	TAC Y	CTG	CTC
GCC A	${ m TTG}$	CGA R	${ m TTC}$	ATG M	TGC	ATC I
468 GCA A	522 GAG E	576 ACT T	630 TTT F	684 ACC T	738 GCC A	792 TCT S
GCA A	GAG E	GCT	TGC	TCC	CTC	CTT
GCT A	GCA A	ACA T	CCC	GTA V	TTC	
459 TCA S	513 AAG K	567 GGC G	621 CAG Q	675 ACT T	729 AAC N	783 TTT F
GCC A	CGG R	GGG G	GTT V	AAG K	CTG L	
CAG Q	AAC N	CTG L	CCA P	CAG Q	CTC	GCA A
450 ACT T	504 CTC L	558 GCC A	612 TGT C	666 TTT F	720 CTT L	774 GGC G
AGC S	GAG E	GCT A	TTT F	GAA E	GCT A	AAT N
TAC Y	GAG E	CAT H	TCT	CAA Q	CTG	AAC N
441 TCA S	495 CAG 2	549 CAG 2	603 2CT P	657 2CC P	711 ACG I	765 ACC I
) J	AAA K	CTG	CTA L	ATC I	AGC	GAA E
TAT (Y	AAG K	GAG	CCT	GAG E	TGC AGC Z	GTG V

FIGURE 1B

864 CGG R	918 GAT D	972 TGG W	.026 CTG L	.080 AAA K	089 1107 1116 1125 1134 CAC TCC TTA TAC CGC CGC ACA GGT GCC AGC TTT CAG AAG GCC CAG CAA H S L Y R R T G A S F Q K A Q Q	188 AAT N
TTC	CAG Q	9 9	1 ATG M	1 CTG L	1 CAG Q	1 GCC A
GCT A	GTC V	AGT S	CTC	ATC M	GCC	GCT A
855 AAG K	909 TTC F	963 TTC F	1017 GTG V	1071 GTC V	L125 AAG K	1179 GCA A
TAT Y	TTC	GGA G	TCC	ATT I	CAG Q	ACC T
ATG M	ATT I	TGG W	GTA V	GGA G	TTT F	CGA R
846 CCC P	900 TTC F	954 GGT G	1008 GCA A	1062 CTA L	1116 AGC S	.170 GTG V
CGC R	TTC	CCA	ACA	GTG V	GCC A	1 GCG A
TAC Y	TTC	ATC I	AAC N	GCT A	GGT	CCT P
837 TGG W	891 GTT V	945 GGT G	999 GGC G	1053 ATT I	1107 ACA T	L1 61 AAC N
TGC	TTC	ATT I	AAG K		CGC R	TCC S
GTC V	TTC	GCC	CCG P	ACT T	CGC R	TTC F
828 TTT F	882 AAT N	936 CAG Q	990 GTG V	1044 TTC F	.098 TAC Y	.152 GTC V
TCC	TTC	CTC	GTG V	CTC L	TTA L	1 GGT G
TGC	TCA S	GTC V	CTG L	CTG L	TCC	GCT A
819 CCC P		927 TTT F	981 GCT A	.035 GCC A	.089 CAC H	.143 GCT A
TTC ACT F	AGT GAC S D	GTG CTC V L	TCT S	1035 CTG GTC GCC L V A	1089 ATC CAC I H	1143 TTT GCT F A
${ m TTC}$	AGT S	GTG V	ATC I	$ ext{CTG}$	CGG R	GAA E

FIGURE 1C

1242 CTG ACT GGG	1296 CTA AGG TCT	1350 CTC CCA ATC	1404 TGT GAC CTA	1458 CCC AGC TTC	1512 AAA GTG GAA	
1233 TGA CCC	1287 CCG TCC	1341 GTA GTG	1395 GGA GTT CAC TGT	1449 CCC CAA	1503 AAA AAG	
CCG	CTC	ICC	GGA	ACG	AAT	
1224 5 GCC A	1278 ACT TAG	1332 GGC TCC	1386 GTG TGG	1440 TCT CAC	1494 TAT TTA	
J CGG R	ACT		GTG		TAT	
$ ext{TTC}$	CTG	GAT	299	ACC	GGT	
1215 AAT GCC N A	1269 AGG GAG CTG	1323 CTA ACT	1377 CTG ACA GGC	1431 GCT GCC	1485 TGC TTC	
GAA A	TTG 7	TCA (AAC	ACT	TGT	
1206 1215 1224 GGG GCT GCT GAA AAT GCC TTC CGG GCC CCG G A A E N A F R A P	1260 CCC TGC TAC TTG	1314 1323 GGA GAG ACA TCA CTA ACT GAT	1368 CTG CTG	1422 TCA GGC CAC	1476 CAC GGC	
GGG	೧೧೧	GGA	TGA	TCA	TGC	3
1197 GCA GCC GCT A A A	1251 ATG CCC TGG	1305 CTG GGA CTT	1359 CTA TGG CCA	1413 STC CCC CCA	1467 CCT CTG CTG	1521 CTG GAA CTG
GCA A	ATG	CTG	CTA	GTC	CCT	CTG

FIGURE 1D

4 K	ထ္ ပ	2 D	9 A	0 5	4 G	8 K
54 GCA	108 GAC D	162 GTG V	216 TCA S	270 CAG Q	324 GTG V	378 AAA K
GAG	TTC	TCT S	2 C TTC T F S	TCA	GCC A	C AGG A
900	GCT	CCC	$\mathcal{E}_{\mathbf{a}}$	TCC	CAG Q	GAC D
45 TGC	99 TCG S	153 GAT D	207 AAC 0	261 GGG G	315 CCC CAG P Q	369 CTG GAC 7 L D F
999	ATG M	rtc cag f Q	T. T.	CCT	ACC	GAA E
TCT	ACC	TTC F	GAA E	CTC L	CCG P	GAA E
36 GGG	90 ATC	144 CCC P	198 GCG A	252 CAA CTC (Q L F	306 CAG CCG ACC Q	360 CAG Q
GCT	90	GTA AAC O	CTG L	ACC T	ACC	CAG Q
CCC	ט טטט	GTA V	9 299	GTC	CCA P	CGG R
27 AGC	81 TGG	135 GAT (D	189 GGC G	243 CCT (297 GAA E	351 CTC L
CGA	DDD ;	GTG V	CAG Q	GTT V	GTG V	
ACA	229	CCA P	CCG	ACA T	TCA	
18 TCT	72 TTC	126 GAC D	180 GCC A	234 ACA T	288 CCA P	342 GCA A
999	GAG	GCG A	AAC N	GCG A	CAG Q	CAG Q
GGA	929	TTC F	ACC T	GCA A	CTC	
9 AGT	63 TTC	117 CCC P	171 CTG L	225 AAT N	279 GTT V	333 GCA A
GGA	505	AAC N	CAG Q	ACA T	GCG A	333 TCT GCA S A
NCC	GCA	ACC T	ACC	GAG .	CCA P	GTG V
5						

FIGURE 2A

ISPLIEUR DEFENI

432 TTG L	486 CCC P	540 TGC C	594 CTG L	648 GGC G	702 TAC Y	756 TTC F
AAC N	AAG K	ATA I	AAC N	$ ext{TTT}$	TGG W	GTG V
GCC	GTG V				TGT	
423 GTA V	477 CCT P	531 CAG Q	585 TTT F	639 GTG V	693 CTT L	747 TTC F
ACT T	TGC	TAC Y	${ m CTG}$	GGA G	${ m TTC}$	AGC S
AAC N	TGG W	GAC D	A.C.T. T	AAG K	GCC A	TTC F
414 CAG Q	468 TCG S	522 GCC A	576 GTG V	630 TCC S	684 TGT C	738 TCT S
m CTG		CCT			CCC	
GAG E	CTG	ATC I	CAT H	AAC N	ACT T	GAC
405 CGG R		513 GAG E				
GAG E	CCC				ATC I	
AAG K		TCC	TGG W	TTC	${ m CTG}$	
396 CGC R	450 AAC N	504 TTC F	558 CTG L	612 TGG W	666 TTT F	720 GCC A
GAA E	AAC N	GAT D	TAT Y	GCC A	TGG W	AAG K
CTG	CAG Q	CAG Q	TAC	CTG L	CTG L	TAT Y
387 GAG E	441 AGA R	495 TAT Y	549 CTC L	603 TGC C	657 ATC I	711 ATC I
GCC A	GTG V	TTC	ATG M	GCC	TCC	CCC
GCT A	CAT H	TGC	AAG K	CTT	CTC TCC A	CGA R

FIGURE 2B

0 U	₹	∞ ⊟	2 A	ဖ ပူ	0 E	4 F
810 ATC I	86 CA H	91 C	97 AC T	102 AG S	108 AA N	113 GC
9 299	AAT N	CTC L	CGG R	AGC S	9999	TGA
GTT V	GAT D	ACC T	CGA R	TTC	CAG Q	1134 TTC TGA GCT
801 TTG L	855 CTG L	909 TTC F	963 2 TAC CGA CGG ACA Y R R T	.017 ATC I	.071 TTC F	.125 GCC
CAG Q	ACA T	TTC F	CTC L	1 GGC G	GCC A	1 CCT
ATC I	TCT	9	TCC	CAG Q	GGA	TCG
792 ATC 1	846 CTG L	900 GCT A	954 CAC H	1008 TCC S	1062 CAA Q	1116 CTC
TAC Y	GCC A	GTG V	127 936 945 954 963 FIC TCA GTC TTC CTC CTG CAG CGG GTG CAC TCC CTC TAC CGA S V F L L Q R V H S L Y R	TTT F	GCC A	TTT
ATC I	GCA A	GTG V	CGG R	GAG E	GCT	225
783 GGG G	837 ATT I	891 ATG M	945 CAG Q	999 GAG E	1053 TCT S	1107 TCA
ATA I	TGG W	ATG M	CTG L	CAG Q	TCA	CCC
CAA Q	GGT	ATC I	CTC L	GCC A	GCT A	TCC
774 TGT C	828 AGC S	882 GTC V	936 TTC F	990 CAG Q	1044 GCT A	1098 CTC
TTT F	GAC D	TCA	GTC V	CAG Q	AGA R	CTT
${ m TTT}$	9 5 GGG G	ATA I	TCA	TTC	10 CAC AGA (TCT
765 GTA V	819 CTG L	873 GCC A	927 CTC L	981 AGC S	1035 TTC F	1089 TAG TCC TCC
TTT F	GGC	${ m CTG}$	GTG V	GCC A	ACC T	TCC
765 TTC TTT GTA	CCT	TCC	927 GCC GTG CTC A V L		1035 AGA ACC TTC R T F	TAG

FIGURE 2C

CAREED CAREER

1188	1242	1278 1287 1296	1332 1341 1350	1404	1458	1512	1566	1620
CCT GGC	CCC TGG AAC	CTA TGT ACA AAA AAA AAC AAA GCT CTC	GAT TCT TTT GTC TCT GGA AGC AGT GGG	GGG ATC	GGG CCT	CAC AGC CCA	, CAG ATC	TTG CCT
AGA		AAA	AGC	GTT	CCT	CAC	GGA	${ m TGG}$
1179	1233	1287	1341	1395	1449	1503	1557	1611
CAG CAC	ACC AGC TCT	AAA AAC	TCT GGA	CAC ACA	CAG GGT	CTT AGA	TCT GGT	GAA GGC
229	ACC	AAA	GTC	CCC	IGC	CTT	GGT	AGA
1170	1224	1278	1332	1386	1440	1485 1494	1548	1602
GGT TGT	TCA GCG	TGT ACA	TCT TTT	CAC AGA CAC	GGA GCT TTC	CTG GCC TGA ATC TGG CTT	CTC ACA	CAG GCT TCC AGA
GGT	Ω	CTA	GAT	CAC	GGA	TGA	CCT	CAG
1161	1215	1269	1323	1377	1431	1485	1539	1593
TGT GGT	CCT CCT	CCC CCT	TGG TAG	TGC ACA	CCA GCT	CTG GCC	AAT AAG	GGT CTC
\mathtt{TTA}	CTT	TTT	GTT	CTG	ATC	299	999	AGT
1152	1206	1260	1314	1368	1422	1476	1530	1584
GTG GGT GCC	GCC GTG GCT	AGG GAA TTT	CTG GTG ATG	CTC TTC GTC	CCT GGG CCC ATC	CAC CCT GCA GGC	GCC TGG GCT	GGT CAC TCC AGT
1143	1197	1251	1305	1359	1413	1467	1521	1575
GCA CTT TCC G	AGG GTT CTT GO	GGG AGG GAC A(TTT CCT TCT C	ACT GAA GTT C	ACA GGC TGA CO	TGA CTC CCC CA	GTC CTT CCT G	TGT TCC CCA G

FIGURE 2D

1674 TAA GCT	1728 CCT GCA	1782 CTG AGC	1836 TGG GGA	1890 AGC GTC	1944 GTT TGC	1998 TCT GCC	2052 TTŤ CAG	2106 ATA AGC
		CTC	TGC	AGC	GTT	TCI	TT	ATA
CCT	\mathcal{D}	TTG	ATT	TCC	CCT	GTC	GAC	CTG
1665 TTG	1719 ' TAT	1773 CCC	1827 GGG	1881 . GCG	1935 GGC	1989 TTT	2043 CCA	2097 GGA
1665 TGG TTG	1719 CTT TAT	1773 CTC CCC	1827 GTT GGG	1881 CTA GCG	1935 TTT GGC	1989 GCC TTT	2043 CAT CCA	2097 CAG GGA
255	225		TTG (TGC (TGG	GCT (CAG (
1656 GAA (1764 GGA (2088 CCT (
1 (1. ITA A	1. [CT (1818 GTG CCG	1872 CTG TCC	1 (1 <u>9</u> 3GG <i>1</i>	2034 CAT CAG	2088 ATC CCT CAG
1656 TCC AGA GAA	1701 AGA AAC GGA TTA ATA	1764 CCC TCT GGA GCC	ACA (AAG (1926 TGG TGT GGT	1980 CGA GGG ACG))))	GC 7
	1701 . AAC (1755 GAG (1809 . TGT A	1863 CCC 7	1917			2079 ; AAC (
1(1. 1GA A	1755 TTT GAG	1809 GAA TGT	1863 GAC CCC AAG	1917 CTG TCC	1971 CCG AAC	2025 CAT GCT	20 2AG P
1647 ATA AAC GGA	CTG A	CAC	TCT (TCC () 229	STC (
	1692 TTC (1854 AAG GAC ACT	1908 GGG GTC TGC	1962 CCC 7	2016 CCC (2070
1638 TGC CTC	1692 GTG TTC	1. 3GA '	1800 AGA CTT	18 9AG (1. 3GG (1962 CCC CCC	2016 TGC CCC	2(CAG (
CTC	CTC	1746 AGG GGA TGG	TTC 7	ACC 7	GGT (222	ACC 7	2070 2079 GAC CAG CCA GTC CAG AAC CGC
1629 CAA GCT CTT	1683 CCC TGC	1737 CCC TCC TGC	1791 ACT CTC	1845 CTG GAA GGG	1899 TTC TAG GAG	1953 GAC TAC	2007 ICA GAI GCC	2061 gaa ggg cag
A.A. G	CTT C	CC I	CTT A	IG G	IC T	TGT G	CA G	4A G
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FIGURE 2E

DOBLIBOR DARAGE

2214 CCC TGT	2268 AAC TAG	2322 TAC TGG	2376 TGT ACA	2430 AAC ATT TTC
GCA	CAA	TGA	CTA	AAC
2205 AAA CCA	2259 TTC CCA	2313 ACT GAA	2367 TCC CCT	2421 TTA AGT AAA AAT AAA
TTA	വാ	၁၁၅	TTT	AAA
2196 CCA CCC	2250 TGG GGT	2304 GCC CCA	2358 GGT ATT	2412 TTA AGT
AGT	GAC	CAG	TCT	TGC
2187 CGT AGG	2241 TGT GTG	2295 CAG CCG	2349 CTC CTT	2403 TTT TTG
ACA	999	AGA	GAA	CAA
2178 GAT GGG	2232 CCG AGT	2286 GGC CCG	2340 TTT TAT	2394 2403 GTT ACG TCT CAA TTT TTG TGC
TGT	CTG	CTG	999	GTT
2169 TGT CAC	2223 TCG AGG	2277 CCG GCT		2385 AAT GTA TAT
GTG	CCC	CCT	CAG	AAT
	2178 2187 2196 2205 TGT GAT GGG ACA CGT AGG AGT CCA CCC TTA AAA CCA GCA CCC	2178 2187 2196 2205 TGT GAT GGG ACA CGT AGG AGT CCA CCC TTA AAA CCA GCA CCC 2232 2241 2250 2259 CTG CCG AGT GGG TGT GTG GAC TGG GGT GCC TTC CCA CAA AAC	2178 TGT GAT GGG ACA CGT AGG AGT CCA CCC TTA AAA CCA GCA CCC 2232 CTG CCG AGT GGG TGT GTG GAC TGG GGT GCC TTC CCA CAA AAC 2286 CTG GGC CCG AGA CAG CCG CAG GCC CCA GCC ACT GAA TGA TAC	2169 2178 2187 2196 AGT CCA CCA

AGA C 3'

FIGURE 2F


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GI 487057
                                                                      GI 487057
                                                                                                                GI 487057
                                                                                                                                                            GI 487057
                                                                                                                                                                                                       GI 487057
                                                                                                                                      980615
     980615
                412453
                                                980615
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                                                                                                                                                                                  980615
                                                                                                                                                                                            412453
    TLDV
GLAE
GLDE
                                              L Q P S R K L S P T E P P Q P A V L Q P S V E P P Q P A I M K P T E E H
                                                                                       QASAAAATAE LLKKQEE LNRKAEJE LDRRERL
AVVSA - AQAGLLRQQEE LDRKAAE LERKERE L
TKEHALAOAE LLKROEE LERKAAE LDRREREM
                                                                                                                                                                               OKTVSTMYYLWMCSTLALLLNFLACLASFCVETNNGAGFG
ORICKMLYYLWMLHSVTLFLNLLACLAWFSGNSSKGVDFG
OKTVKLMYYLWMFHAVTLFLNIFGCLAWFCVDSSRAVDFG
                                                                                                                                   QHAALGGTATRONNWPPLPSFCPVQPCFFQDISMEIPQEF
QNT-VANLHVRONNWPPLPSWCPVKPCFYQDFSTEIPADY
ONL---SQHGRKNNWPPLPSNFPVGPCFYODFSVDIPVEF
SELDNPFQDPAVIQHRPSRQYAT
- V D V N P F Q D P S V T Q L T N A P Q - G G
- D L N N P F K D P S V T Q V T R N V P - P G
                                           PPAPLPPSAPSL
- ATTVPVTQLPGSS-
- PGGVKMPNVP-NT-
 QSRDGGNPFAEPS
AF--DTNPFADP--
DE--DSNPFADP-
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FIGURE 3A

201 LSILWVLLFTPCSFVCWYRPMYKAFRSDSSFNFFVFFIF 980615	980615
186 LSILWFLIFTPCAFLCWYRPIYKAFRSDNSFSFVFFFVF 412453	412453
186 LSILWFLLFTPCSFVCWYRPLYGAFRSDSSFRFFVY GI 4870	GI 487057
241 FVQ D V L FVL Q A I G I P G W G F S G W I S A L V - V P K G N T A V S V L M 226 F C Q I G I Y I I Q L V G I P G L G D S G W I A A L S T L D N H S L A I S V I M 226 I C Q F A V H V L Q A A G F H N W G N C G W I S S L T G L N K N - I P V G I M M	980615 412453 GI 487057
280 LLVALLFTGIAVLGIVMLKRIHSLYRRTGASFOKAQQEFA	980615
266 MVVAGFFTLCAVLSVFLLQRVHSLYRRTGASFOQAQEEFS	412453
265 IIIAALFTASAVISLVMFKKVHGLYRTTGASFEKAQOEFA	GI 487057
320 AGVFSNPAVRTAAANAAA GAAENAFRAP	980615
306 QGIESSRTFHRAAS SAAQGAFQGN	412453
305 TGVMSNKTVQTAAANAASTAATSAAONAFKGNOM	GI 487057

FIGURE 3B